

WHAT IS CLAIMED IS:

1. A multilayer film comprising an outer heat-sealable polyolefin layer, a core gas-barrier layer comprising at least one gas barrier resin selected from the group consisting of EVOH and polyamide, and an outer bonding layer comprising styrene-based polymer which makes up at least 35 weight percent of the film, based on total film weight, the styrene-based polymer comprising modified styrene-based polymer, with the modified styrene-based polymer being present in the outer bonding layer in a ratio, with respect to the weight of the gas-barrier resin, of at least 0.1 : 1.

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2. The multilayer film according to Claim 1, wherein the styrene-based polymer makes up at least 38 weight percent of the film, based on total film weight, and the modified styrene-based polymer being present in the outer bonding layer in a ratio, with respect to the weight of the gas-barrier resin, of at least 0.3 : 1.

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3. The multilayer film according to Claim 1, wherein the styrene-based polymer makes up at least 40 weight percent of the film, based on total film weight, and the modified styrene-based polymer being present in the outer bonding layer in a ratio, with respect to the weight of the gas-barrier resin, of at least 0.5 : 1.

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4. The multilayer film according to Claim 1, wherein the modified styrene-based polymer comprises anhydride grafted styrene-based polymer.

5. The multilayer film according to Claim 4, wherein the modified styrene-based polymer are maleic anhydride modified styrene block copolymers. 4. A substrate/film composite comprising a substrate comprising styrene-based polymers and a gas-barrier multilayer film of claim 1.

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6. A substrate/film composite comprising a foam substrate and a multilayer film comprising an outer heat-sealable polyolefin layer, a core gas-barrier layer comprising at least one gas barrier resin selected from the group consisting of EVOH and polyamide, and an outer bonding layer comprising styrene-based polymer which makes up at least 35 weight percent of the film, based on total film weight, the styrene-based polymer comprising modified styrene-based polymer, with the modified styrene-based polymer being present in the outer bonding layer in a ratio, with respect to the weight of the gas-barrier resin, of at least 0.1 : 1.

7. The substrate/film composite according to Claim 6, wherein the foam substrate comprises polystyrene.

8. The substrate/film composite according to Claim 6, wherein the foam substrate comprises substrate/film composite reclaim in an amount of from about 0.001 percent up to about 100 percent, based on foam substrate weight.

9. The substrate/film composite according to Claim 7, wherein the foam substrate comprises substrate/film composite reclaim in an amount of from about 0.001 percent up to about 100 percent, based on foam substrate weight.

10. The substrate/film composite according to Claim 8, wherein the foam substrate comprises substrate/film composite reclaim in an amount of at least 20 percent, based on weight of foam substrate.

11. The substrate/film composite according to Claim 10, wherein the foam substrate comprises substrate/film composite reclaim in an amount of at least 30 percent, based on weight of foam substrate.

12. The substrate/film composite according to Claim 11, wherein the foam substrate comprises substrate/film composite reclaim in an amount of at least 40 percent, based on weight of foam substrate.

5        13. The substrate/film composite according to Claim 12, wherein the foam substrate comprises substrate/film composite reclaim in an amount of at least 50 percent, based on weight of foam substrate.

10       14. The substrate/film composite according to Claim 13, wherein the foam substrate comprises substrate/film composite reclaim in an amount of at least 60 percent, based on weight of foam substrate.

15       15. The substrate/film composite according to Claim 9, wherein the foam substrate comprises substrate/film composite reclaim in an amount of at least 20 percent, based on weight of foam substrate.

16. A tray comprising a substrate/film composite comprising a foam substrate and a liner which comprising a multilayer film having an outer heat-sealable polyolefin layer, a core gas-barrier layer comprising at least one gas barrier resin selected from the group consisting of EVOH and polyamide, and an outer bonding layer comprising styrene-based polymer which makes up at least 35 weight percent of the film, based on total film weight, the styrene-based polymer comprising modified styrene-based polymer, with the modified styrene-based polymer being present in the outer bonding layer in a ratio, with respect to the weight of the gas-barrier resin, of at least 0.1 : 1.

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17. The tray according to Claim 16, further comprising a bottom portion and side walls integral with the bottom portion, and a flange extending outwardly from top edges of the side walls.

18. The tray according to Claim 17, wherein the flange extends outwardly in a plane parallel to the bottom portion.

5 19. A food package comprising:

- 10 (A) a tray comprising a substrate/film composite comprising a foam substrate and a liner comprising a multilayer film having an outer heat-sealable polyolefin layer, a core gas-barrier layer comprising at least one gas barrier resin selected from the group consisting of EVOH and polyamide, and an outer bonding layer comprising styrene-based polymer which makes up at least 35 weight percent of the film, based on total film weight, the styrene-based polymer comprising modified styrene-based polymer, with the modified styrene-based polymer being present in the outer bonding layer in a ratio, with respect to the weight of the gas-barrier resin, of at least 0.1 : 1, the tray having a flange around a perimeter thereof;
- 15 (B) a food product on an upper surface of the tray; and
- (C) a film over the food product, the film being sealed along the flange of the tray.